



**DEPARTMENT OF WATER, COUNTY OF KAUAI  
ANNUAL REPORT  
FISCAL YEAR 2013 – 2014**

**I. MISSION STATEMENT**

The following mission statement serves as the guiding principle for the Department of Water (DOW). The mission statement was established in 1998.

**Department of Water – Mission Statement**

*“Together, we provide safe, affordable and sufficient drinking water through wise management of our resources and with excellent customer service for the people of Kaua’i”*

**II. ORGANIZATION** (County Charter, §17.01)

There shall be a Department of Water Supply consisting of a Board of Water Supply, a Manager and Chief Engineer and the necessary staff.

**A. BOARD OF WATER SUPPLY:** (County Charter, §17.02)

The Kaua’i Board of Water Supply shall consist of seven (7) members, four (4) of whom shall be appointed by the Mayor, with the approval of the Council; one (1) of whom shall be the State District Engineer of the Department of Transportation; and two (2) of whom shall be the County Engineer and the Planning Director.

During FY 13-14, the DOW has extended their mahalo and appreciation to Board Chairperson, Mr. Randal Nishimura whose 6-year tenure was completed on December 31, 2013.

Since then, the DOW welcomed Ms. Laurie Ho as the newest Kaua’i Board of Water Commissioner in February of 2014.

By unanimous vote, Mr. Clyde Nakaya was appointed as Board Chairperson for calendar year 2014.

<u>For FY13-14:</u>	<u>Term Expires</u>
Clyde Nakaya, Chairperson.....	12/31/16
Sherman Shiraishi, Vice Chairperson.....	12/31/15
Hugh Strom, Secretary .....	12/31/15
Laurie Ho, Board Member .....	12/15/16
Raymond McCormick (State District Engineer) .....	(ex-officio)
Lawrence Dill (County Engineer) .....	(ex-officio)
Michael Dahilig (Planning Director).....	(ex-officio)

**1. Power & Duties of the Board** (County Charter, §17.03)

The Board shall manage, control and operate the waterworks of the County and all property thereof, for the purpose of supplying water to the public and shall collect, receive, expend and account for all other moneys and property provided for the use or benefit of such waterworks.

- a. The Board shall maintain accounts to show its complete financial status and the results of management and operations.
- b. The Board may provide for a reserve fund, issue revenue bonds, provide for payment of bonds, expend bond funds and other funds, establish rates and charges, acquire property, sue and be sued, and engage in and undertake all other activities as provided for in Chapter 145-A, Revised Laws of Hawaii 1955, and as may be hereafter provided for by law.
- c. The Board may make and, from time to time, alter, amend, and repeal rules and regulations relating to the management, control, operation, preservation and protection of the waterworks. Such rules and regulations shall have the force and effect of law. Penalties for the violation of any rule or regulation shall be set forth in the rules and Regulations.

**B. STAFF** (County Charter, §17.04)

The Board shall appoint an engineer duly registered under Hawai‘i State laws pertaining to registration of engineers. He shall be known as the Manager and Chief Engineer, and shall be head of the Department. He shall have the powers and duties prescribed by the Board.

For FY 2013-2014, The DOW had ninety-seven (97) positions funded with twenty-one (21) vacancies. There are six (6) divisions under the administration of the Manager and Chief Engineer.

The DOW extended a mahalo and best wishes to two (2) retirees, Mr. Mel Yamase and Mr. Gregg Fujikawa totaling over seventy-one (71) combined years of service.

Mr. Mel Yamase supervised the Billing Section under the Fiscal Division and Mr. Gregg Fujikawa headed the Water Resources and Planning Division at the DOW.

**1. ADMINISTRATION DIVISION**

The DOW’s *Acting* Manager and Chief Engineer is Kirk Saiki, P.E. The administrative staff included fifteen (15) budgeted positions for FY 2013-2014. The Administration Division is responsible for the day to day management of the DOW and coordination between the DOW and the public, including customers, governmental organizations, and public inquiries; personnel management; contract management; management of Board affairs; and providing service to, and oversight of the operation of each of the other six (6) divisions.

*Current Staff:*

*Vacant* – Manager and Chief Engineer

**Kirk Saiki, P.E.** – Deputy Manager *Acting* Manager and Chief Engineer

**Mary-jane Akuna** – Private Secretary

**Christine Erorita** – Secretary

**Edith Ignacio-Neumiller** – Commission Support Clerk

**Margie Loo** – Senior Clerk

**Bekki Dee Malapit** – Clerk-Typist / Phone Operator

**Andrea Suzuki** – Deputy County Attorney

*Vacant* – Procurement Specialist IV

**Kimberly Tamaoka** – Public Relations Specialist

*Vacant* – Clerical Assistant

**Debra Peay** – Human Resources Coordinator

**Jeffrey Mendez** – Waterworks Information Technology Officer

**Sandi Nadatani-Mendez** – Information Technology Specialist I

**Earl Kiamzon** – Computer Systems Support Technician I

### **Program Description**

Administration leads, directs and manages the activities of the DOW and provides administrative support for all divisions including: personnel services, clerical support, legal support, community relations, information technology (IT), training and safety; intergovernmental coordination with Federal, State and County agencies; and coordination of long-range planning and DOW programs and activities among the divisions.

### **Program Objectives**

- a. Provide support for the Kaua'i Board of Water Supply in its role to manage, control, and operate the waterworks of the County, and all property thereof; adoption of the DOW's budget and establishment of water service rates and charges; and facilitate development and implementation of administrative rules and Board policies.
- b. Administer the DOW's staff and provide support for the operating divisions of the DOW, through provision of clerical, personnel, legal and IT services; coordination of Department-wide programs; establishing goals, objectives and assignments for the operating divisions; and providing operational financial and procurement oversight for the Divisions.
- c. Provide leadership for the DOW's community relations and intergovernmental coordination with other federal, state, and county agencies.
- d. Coordinate Department-wide initiatives and programs, including long range planning, development of business and capital improvement program strategies, staff and organizational development, water system security and adoption and integration of new technologies.

### **Program Highlights**

- a. During Fiscal Year 2013-2014, the DOW continued working on WP2020 projects. Public outreach to promote water conservation and environmental education, including sponsoring Project WET (Water Education for Teachers), and coordinating of the Make-A-Splash Festival (MAS).
- b. The DOW continues to work with the Kaua'i Watershed Alliance (KWA), an organization for mauka landowners dedicated to watershed conservation, completed preparation of the watershed management plan, and has hired The Nature Conservancy of Hawai'i (TNCH) as the coordinator for the alliance. The DOW, although not a landowner, is a member of the Alliance, and continues to support the conservation goals and efforts of this group in recognition of the critical importance of the watershed for maintenance and enhancement of the water resources of the island

- c. The DOW also continues the work with the United States Groundwater Monitoring Program to continue to collect data and evaluate status and trends of water levels in selected wells on the island.
- d. The DOW Administration Division's Private Secretary and Secretary attended the 41<sup>st</sup> Annual Administrative Professional Conference held at San Francisco, California. Among the one hundred fifty (150) secretaries from the various 50 states, they were the only attendees from the State of Hawai'i. The comprehensive program focuses in management, the psychology of influence, strategic excellence, and amplifying social intelligence suited for administrative teams with management responsibilities to give their best in enhancing their own strategic skills. The DOW looks forward to continuing this program yearly for the administrative support team and finds that the interaction within this training program sets a clear vision and guides the team toward increased performance at its highest potential and to elevate the standard of service within the office by setting an example.

The following summary is an overview of some of the key department-wide accomplishments for FY2014.

#### **Board of Water Supply Items**

- a. Approved the reprioritization and updating of the Water Plan 2020 (WP2020) Project Priority List.
- b. Approved funding requests in support of training efforts and staff reorganization.
- c. The Board approved the annual budget and audit as well as various contracts, agreements and recommendations necessary for management of the waterworks of the County.
- d. Rule Changes
  - June 26, 2014, the Board adopted amended changes to Part 2, Rules and Regulations for Water Service Connections within the County of Kauai as it relates to the Adjustment of Bills for Undetected Leaks and Unforeseen Damages. Kaua'i County is the only Water County that has a leak rebate program for underground undetected leaks. Changes were amended to the following sections:
    - 1. Section IX – Adjustment of Bills for Undetected Leaks and Unforeseen Damages
  - The Board continues to discuss the various options to revise Part 3, Section III, Facilities Reserve Charge (FRC). The existing FRC was last updated in 2004 and revision prior to that was in 1993. An FRC update will ensure that FRC's continue to be equitable.

#### **Departmental Programs**

- a. The DOW is a member of the American Water Works Association (AWWA). This is a non-profit organization that benefits the DOW to improve public health with dedication to managing and treating the world's most precious resource with standards and applications of resource and training to the DOW staff.

- b. The DOW is a member of the Hawai'i Water Works Association (HWWA). HWWA is a locally based non-profit organization and a branch of AWWA. HWWA provides the DOW as the initial point of contact concerning water system standards and the improvement of practice in operating and management of the water works and government policies to the stewardship of water.
- c. The DOW is also a member of the Hawai'i Rural Water Association (HWRA) which is a chapter under the National Rural Water Association primarily focusing on rural areas since December of 2010. The Manager and Chief Engineer is a part of the Board of Directors team and HWRA provides the DOW with training and technical assistance programs, products and to target the available resources that are best for the Kaua'i County. They provide leadership and input on a national level in ensuring resources on directing water policy in Washington D.C. The DOW benefits obtaining operator certification and continuing education courses both onsite and technical assistance from HWRA.
- d. Tracking American Water Works Association (AWWA) Performance Indicators in areas of finance, customer service, operations and system replacement.
- e. Tried to reduce operational costs by filling vacant positions and reducing overtime. This is being hampered due the added OT to cover needed functions included in reorganizations that have taken years to complete.
- f. The DOW continues to provide leadership in emergency preparedness through its participation in the County's Energy and Utility Council as assigned through the County's Emergency Operations Plan.

## **Information Technology**

### **Program Description**

The Information Technology (IT) Team within the Administration Division maintains databases for the DOW core Financial (Great Plains) and Maintenance Management System (M-PET), maintaining all applications including updating Document Imaging System and Water Plan 2020 databases. The staff supports the DOW's Business and SCADA Local Area Networks, as well as website development and network maintenance and troubleshooting and has been instrumental in moving the GIS program forward.

The DOW's Voice over IP Phone System (VoIP) is administered by the IT Division and staff provides training to new users of the phone system.

### **Program Highlights**

- a. The Customer Care and Billing System (CC&B) began its second year and IT continues to be instrumental in helping the Billing Division. IT created a dedicated (encrypted) vpn connection that is always up and made available to more of the DOW's staff. We currently have approximately 54 users connected to CC&B where previously it was limited to only the Billing staff. This dedicated line also makes for a quicker connection for our customer support staff. Also included as

part of this project is maintaining all peripherals, including new printers, receipt printers, meter reader laptop and hand held devices. IT trained all users at the DOW on how to access/use the new system.

- b. IT currently maintains a SharePoint server, developing a new SharePoint portal for the Construction Management Division to house all documents related to both their CIP projects and Private projects. Documents for a number of on-going projects can now be quickly located. The SharePoint server is available remotely allowing for the CM Division to integrate their daily work flow out in the field. An inspector can journalize and upload their journal/photos file directly into the SharePoint portal from the construction site.
- c. IT supports all divisions with consumption/customer information and data to be populated into our hydraulic water model. These reports also serve as a basis for determining water needs for water service inquiries.
- d. The DOW's Water Quality Reports, Consumer Confidence Report (CCR), were mailed out. The water quality reports may also be viewed online at [http://www.kauaiwater.org/waterqualityrpt\\_pdf.asp](http://www.kauaiwater.org/waterqualityrpt_pdf.asp)

#### IT Plan

IT developed a Long Term Strategic Plan in the previous fiscal year. The IT Plan established 10 tasks to be implemented over the course of six (6) years.

During this fiscal year, IT began implementation of task 1 of the IT Plan, which entailed changing our chart of accounts. This fiscal year also saw implementation of tasks 2, 8 and 10 of the IT Plan and partial development of task 4.

#### ***Task1: Redevelop Chart of Accounts / Re-Implement FIS***

It was determined that instead of replacing our current financial system; the DOW will be upgrading our Great Plains Accounting System to the latest version. Along with upgrading our accounting system, a new module for purchase requisitions would be integrated. This would allow for supervisors to approve their own requisitions with the hopes to moving towards going paperless. It was also determined that we would be moving these applications to the "cloud".

A new chart of accounts was set up, creating significantly less number of accounts. These accounts were loaded into a test environment and training was provided to all users. Task 1 of the IT plan is scheduled to go live at the beginning of the next fiscal year.

#### ***Task 2: Relax Internet Restrictions***

As part of the IT plan, it was determined that there was a need to relax internet restrictions. The DOW's previous web filter created a lot of "false positives" which would prevent access to many sites, causing IT staff to unblock many legitimate sites.

A new web filter server was integrated into the network and saw a 95% acceptance of most website requests. The need to unblock sites, while still necessary from time to time, has become less commonplace.

#### ***Task 4: Develop Web Based GIS Viewer and Map Layers***



This task entails developing a web based GIS viewer and map layers. IT has been developing the map layers. A GIS Water Model was developed for Anini Water System with GPS readings completed for the Lawai-Omao Water System. There are five (5) GIS Water Models to be completed.

These GIS models are being created to have maps accessible in the field and to be integrated into our system applications in the future.

In the area of GIS, IT staff provided GIS. training/support, when necessary to staff and the Kaua'i Fire Department, and also provided support throughout the DOW. Whether creating maps for special requests or creating maps for new water projects and shut down areas, IT is involved. Support was also provided to the Fire Department in offering our hydrant layers as they become available.

#### ***Task 8: Upgrade Wonderware and Servers***

Upgrading our aging SCADA network servers and Wonderware software was an initiative that was included as part of the IT Plan.

A total of six servers were replaced along with a development workstation. Along with upgrading the servers, IT division also replaced the server rack so that the servers could fit more securely and also purchased and configured a new backup device. The backups can run unattended for approximately one month.

#### ***Task 10: Upgrade IT infrastructure & Expand IT Support***

Upgrading and maintenance of IT infrastructure is always an on-going task. IT continues to replace our physical servers with virtual servers. Virtualizing our servers provides the DOW with a lot of built in fault tolerance and an easy way to create a new server. The DOW's internet bandwidth has been increased to 25MB which was done in preparation for our "cloud" applications. A new backup device was integrated into the network that allows for snapshot backups. This allows for several backups a day.

### **Public Relations**

#### **Program Description**

Public Relations (PR) within the Administration Division, performs a variety of public informational activities relating to DOW functions and programs with assisting all division at the DOW including participation in the County Administration's Employee Council. Public Relations' main objective is to perform, develop and expand the DOW's community outreach initiatives. This involves coordinating promotional events, presentations and advertisements that promote the DOW, water conservation, and general water education. This also involves disseminating accurate and timely public information for customers regarding the DOW's dynamic water system.

#### **Program Highlights**

- a. The DOW hosted the 10<sup>th</sup> Annual Make a Splash with Project WET (Water Education for Teachers) festival. This annual festival is open to all of Kauai's fifth grade students to gather at the DOW and learn water educational activities through hands-on methods created by the Project WET Foundation.
- b. The DOW continues to serve as the sole host institution for Project WET Hawaii. The DOW's PR Specialist is the Project WET Hawaii State Coordinator.
- c. The DOW provided a water buffalo for runners of Kauai's first Color Relay, a benefit for the Kapaa Middle School Choir and Ukulele Band.
- d. The DOW's PR Specialist assisted the County of Kauai's Employee Council to host a dinner for the homeless at the Pua Loke Arboretum.
- e. The DOW participated in the Angel Tree Project where 52 employees provided gifts for The Salvation Army's Angel Tree.
- f. The DOW conducted Career Day presentations at Wilcox Elementary School, King Kaumualii Elementary School and Koloa Elementary School.
- g. The DOW conducted an Earth Day presentation at PMRF's Child Development Center to pre-K students.
- h. The DOW used social media (Facebook and Twitter) to publish a week-long of helpful tips about leak detection, in recognition of the EPA's National Fix a Leak Week.
- i. The DOW coordinated with the County to participate in Kauai Independent Food Bank's Spring Food Drive. The DOW collected a total of 300 lbs. of food and \$30.00 in donations.
- j. The DOW participated in the annual "Agriculture and Environmental Awareness Day" hosted by the University of Hawaii College of Tropical Agriculture and Human Resources and Kauai County Farm Bureau.
- k. The DOW once again partnered with the Honolulu Board of Water Supply to initiate a Summer Water Conservation media campaign which included five to six months of public service announcements on cable television commercials and radio advertisements.
- l. The DOW published quarterly water conservation advertisements and wrote supplementing articles in Kauai Family Magazine.
- m. The DOW continues to support environmental, education and conservation organizations such as the East and West Soil and Water Conservation Districts.
- n. The DOW is also a part of the State's Water Conservation Advisory Group and has updated its portion of the Hawaii Water Conservation Plan.
- o. The DOW continued its contract with the State Department of Health, Safe Drinking Water Branch, to develop and implement a Statewide Project WET for



Source Water Protection Education Program. The DOW completed its Pilot Curriculum Outline and at the end of FY 2013-2014, the DOW organized Project WET training workshops held on Kauai, Oahu, Maui and Hawaii.

## **2. WATER RESOURCES & PLANNING DIVISION**

### **Program Description**

The Water Resources and Planning (WR&P) Division are responsible for long-range planning and research and conducts analytical studies to meet the water needs of Kaua'i. Part of this planning includes interaction with our customers, developers and the County Planning Department for the review and planning of water systems of proposed developments to assure compatibility with the DOW's water general plan. This Division also supports the DOW's public education and water conservation efforts, and maintains the engineering records and mapping function of the DOW. The Division also administers the Cross Connection and Backflow Control Programs. There were six (6) permanent positions budgeted for the Division for FY 2013-2014. In February 2014, the division filled a vacant Civil Engineering I position.

#### *Current Staff:*

*Vacant* – Chief of Water Resources & Planning

**Edward Doi** – Civil Engineer VI

**Regina Flores** – Civil Engineer III

**Joel Bautista** – Civil Engineer I

**Keith Konishi** – Engineering Support Technician IV

**Cleve Shigematsu** – Engineering Drafting Technician III

### **Program Objectives**

- a. WR&P conducts the review and planning of water systems of proposed developments to assure compatibility with the DOW's planning and service availability requirements including the review of subdivision, zoning, land use and general plan amendments, building permits, and water service requests.
- b. WR&P conduct investigations to obtain and analyze data to determine existing and future water system capacity requirements including long-range planning and research and analysis of water consumption and maximum demand to meet the water needs of Kaua'i.
- c. WR&P determines hydraulic criteria for reservoirs, pumping stations and water mains and evaluate and develop water network requirements.
- d. WR&P conduct water resource investigations for the development of potential sources and conduct and/or administer studies relating to the protection of watersheds and water resources.
- e. WR&P performs various long-range planning efforts for the DOW, including the update of Water Plan 2020, and completion of the DOW's Vulnerability Assessments and Emergency Response Plan Update.
- f. WR&P maintains DOW maps and records of all water facilities.

- g. WR&P assists preventative actions of contamination of its water system from other liquids, mixtures, gases or other substances through the implementation and enforcement of the Cross Connection and Backflow Prevention Program.

### **Program Highlights**

- a. For FY 2013-2014, the Division reviewed and processed the following applications and requests for water service:

• Subdivisions.....	22
• Zoning, Use Permit, Land-Use, GPA/Z.....	40
• Additional Dwelling Clearance.....	47
• Water Service Inquiries.....	74
• Water Meter Requests.....	274
• Building Permits.....	823

- b. The Division has completed the review and approval of several water master plans for large development projects and/or subdivisions.

The WR&P Division reviewed the water master plans for the following: Workforce Housing Project for Kukui‘ula Development Co., ‘Ele‘ele Industrial park Subdivision, Residential Site for A & B Properties, The Lima Ola Affordable Housing Project, and the G.F. Wailaau Road System. The WR&P Division also continued to administer approved Water Master Plans for Kukui‘ula Development Co., Kauai Lagoons Resort, Grove Farm Lihue-Puhi Project District and The Water Master Plan for the former AMFAC/JMB Lihue-Hanamaulu Master Planned Community Development.

- c. The WR&P Division continues to utilize and amend Water Plan 2020, adopted in 2001, as our long- range facilities plan and financial plan as a basis for the DOW’s CIP/CRP program. Since FY 2006-2007, the Division has participated in the development of the Strategic and Business Plan and in review and development of the WP2020 Sustainability Program. On March 24, 2011, the Division completed and the Board approved an update of the prioritized project listing for Phase I (FY 2009-2013) and for Phase 2 (FY 2014-FY 2018) and for Phase 3 (FY 2019-FY 2029) of WP 2020. The Division assisted the Administration division and provided updated WP2020 project costs to prepare and complete the DOW’s \$60,000,000 bond float application with the County. The Division assisted the DOW in the preparation of a Needs Assessment Study and Facilities Reserve Charge Update report and the Kaua‘i Water Rate Study & Financial Planning Analysis.
- d. The WR&P Division is currently assisting in the review and development of DOW policies regarding meter restrictions, Facilities Reserve Charge (FRC) offsets, additional dwelling unit meter restriction, private water system developments, boundary adjustments, large lot subdivision exemption, leak rebate refund rule and private well policies. The Division also, assisted in the development of “draft” amended Rules and Regulations regarding the Water System Development Fee.

- e. The WR&P Division continues to assist in the DOW's annual conservation programs. These included the DOW's public education campaign water conservation.
- f. The WR&P Division assisted with the DOW's Project WET program which included teacher education activities and the annual MAS Festival that invites students to learn about water through fun, hands-on activities.
- g. The WR&P Division assisted with new service applications and provided support to management, operations, fiscal and engineering divisions. During FY 2013-FY 2014, the division assisted the Fiscal Division with the Honolulu Board of Water Supply "CC&B" formerly known as the "Loihi" system conversion for the Kaua'i DOW billing and backflow prevention programs. The Division provided staff and input to assist in the development of the Kaua'i DOW program.
- h. The WR&P Division remains responsible for the design and implementation of capital improvement source development, storage and transmission mainline projects as assigned by the manager.
- i. During FY 2013-2014, the annual backflow device test program continues to be refined and expanded. The WR&P Division continues to review and approve backflow device construction plans as well as maintain an inventory and status of each device. The WR&P Division supported the Fiscal Division's effort to require the installation of backflow devices prior to qualifying for the DOW's Agricultural water rates.
- j. The WR&P Division was assigned to administer the DOW's security programs. Security programs include: security fence projects, security directives, vulnerability assessment & emergency response plans. Emergency exercises and training, etc. The Division completed and submitted the vulnerability assessment of the DOW to EPA in June 2004. In Fiscal Year 2004-2005, the Division administered the update of the DOW's Emergency Response Plan (ERP) that includes response to man-made malevolent act. The DOW continues to subscribe to the Water Information Sharing and Analysis Center (Water ISAC) water security information and reporting information system.
- k. The WR&P Division participated in meetings with various drought and watershed groups and community planning committees. The Division continues to assist Kaua'i's local Drought Committee to develop County mitigation strategies and drought mitigation projects for Kaua'i. The Division supports the activities of the Kaua'i Watershed Alliance (KWA) that included a DOW grant to The Nature Conservancy (TNC) on behalf of the KWA.
- l. The WR&P Division coordinated and administered the USGS cooperative research program that includes ground water data collection and a USGS study on lowering ground water levels for the Līhu'e-Kapa'a areas. WR&P also administered the University of Hawai'i Office of Research Studies, "Projecting Future Rainfall Variations for Kaua'i project."

- m. The WR&P Division represents the DOW at the County's Affordable Housing Task Force (AHTF) meeting that is conducted on a monthly basis. The AHTF continues to facilitate the development and approval of affordable housing projects on the island. The AHTF also addresses the development of affordable housing in Lihue, Poipu and Eleele.

### **3. ENGINEERING DIVISION**

#### **Program Description**

The Engineering Division is responsible for the design of Capital Improvement Projects (CIP) and Capital Rehabilitation and Replacement Projects (CRP/CRPL) for the DOW. The division administers engineering consultant contracts; evaluates the feasibility of pipeline alignments and sites for water facilities; prepares plans and specifications and bid documents for new water system facilities. The division performs all necessary construction plan review for Water Plan 2020 projects.

The division provides design review service to government agencies and private developers who design and build water system improvements that will be dedicated to the DOW. The division provides construction plan review for storage tanks, pumping facilities, pipelines and other water system facilities that are installed by other government agencies and private developers. The division is also responsible for maintaining the Water System Standards of the DOW.

#### *Current Staff:*

**Keith Aoki** – Civil Engineer VI

*Vacant* – Civil Engineer V

**Roman Silvestre** – Civil Engineer III

#### **Program Objectives**

The Engineering Division is committed to conduct its business and operations in a safe and efficient manner and to achieve the following objectives:

- a. Implementation of the capital programs identified in WP2020, including new facilities (well sources, storage tanks and waterline) through its CIP Program, and maintaining and upgrading existing water facilities through the CRP/CRPL Programs.
- b. Provide the necessary engineering services to ensure the construction of water facilities adheres to the standards and policies of the DOW.
- c. Expansion of the water system by design of the DOW's plan review for integration of private development water system improvements into the DOW's systems.

#### **Program Highlights**

During FY 2013-2014, the DOW's Engineering Division has continued to progress in utilizing the \$60 million Build America Bond (BAB) issuance of March 2010 in addition to other funding sources. Design has progressed or been initiated on several

WP2020 projects to improve source, storage or transmission infrastructure in various parts of the island.

DOW projects of note include:

**Waimea District**

- HE-14 – Eleele Booster Station Rehab
- LO-08, LO-10 – Lawai-Omao Pipeline Replacement
- K-01 – Kalaheo Water System Improvements
- K-05A – Kukuilono 0.5 MG Storage Tank
- K-18 – 8” Water Main Replacement Along Halewili Road
- KP-09 – Koloa Well 16A and 16B Site Improvements
- Job 13-7 – Koloa Well D Repairs

**Līhu’e District**

- PLH-01A – Replace Grove Farm Tanks #1 and #2

**Kawaihau District**

- WK-01 – Makaleha Tunnel Entrance Rehabilitation
- WK-23 – Wailua Homesteads 0.25 MG Storage Tank site
- WK-08 – Kapaa Homesteads 1.0 MG Storage Tank
- WK-39 – Kapaa Homesteads Well #4
- M-02 – Moloaa Storage Tank

**Hanalei District**

- WKK-09 – Kolo Road Main Replacement
- WKK-15 – Kilauea (Puu Pane) 1.0 MG Storage Tank
- ANI-01 – Anini & Kalihiwai Road Main Replacement, phase 1 & phase 2
- H-05 – Weke, Anai, Mahimahi and He’e Roads, 6” and 8” main replacement
- HW-12 – Wainiha Well #4

Private development projects of note include:

**Waimea District**

- ‘Ele‘ele Iluna Subdivision, on-site work

**Koloa District**

- Premier Estate Lot Subdivision
- U/AA Subdivision
- Ala Kukui‘ula Ph 2A
- Ala Kukui‘ula Ph 3
- HH-11 Subdivision
- Parcel A Subdivision

**Lihue District**

- Kohea Loa Subdivisions
- Wailani Ahukini Makai Subdivision
- Wailani Molokoa Subdivision

- Waiola Ph III Subdivision
- Hokulei Village (Safeway)
- State DOT Līhu'e Mill Bridge project
- Kapule Highway/Rice Street Intersection Improvements

#### **Kawaihau District**

- Kulana subdivision
- 6" Water Main Along Hekili Road

The DOW has received seventy-seven (77) new private development projects for review in addition to ongoing private development and other government agency design projects.

The Engineering Division is continuing the goal to complete the design for CIP and CRP/CRPL projects for the DOW. In addition to Water Plan 2020 projects, the Engineering Division provides services for other government agencies and private development projects.

## **4. CONSTRUCTION MANAGEMENT DIVISION**

### **Program Description**

The former Engineering Division which was comprised of the Special Projects Division and the Design and Construction Division was reorganized into the Construction Management (CM) and Engineering Division in August 2012. The CM Division which is the former Special Project Division was responsible for the design, construction and inspection of all Water Plan 2020 projects such as reservoirs, pumping facilities and pipelines by planning, contracting for design and conducting design review, preparing construction bid documents and subsequent construction management, and inspecting water system improvements funded by the DOW as outlined in Water Plan 2020. The Design and Construction Division was responsible for the design review and construction inspection of water facilities by private parties for dedication to the DOW. The former Engineering division was also responsible via Special Projects for the administration of the DOW's laboratory and performing the water quality monitoring for our water systems.

The CM Division administers all of the construction for CIP/CRP/CRPL projects and provides engineering design and inspectional services to the Operations Division during emergencies as needed.

The CM Division administers construction contracts; evaluates the constructability of pipeline alignments and sites for water facilities through plan design review; prepares plans and specifications and bid/RFP documents for new water facilities and implements and inspects DOW's standards and policies. The Division performs all necessary construction plan review and construction inspection for Water Plan 2020 projects.

The CM Division provides construction management to private developers who design and build water system improvements that will be dedicated to the County by



performing construction inspection and reviewing and approving post-construction documents for water facilities that are being dedicated to the County.

There were seven (7) permanent positions for the CM Division for FY 2013 – 2014. Of the seven positions, three positions are within the Project Management Series and four positions are within the Inspector Series. There are (2) two vacancies remaining in Project Management and (1) one in the Inspection section. These vacant positions are being reclassified with DPS and have been awaiting their review and approval since May 3, 2013. The Division is also in need of a Construction Management clerk with the Engineering Program Assistant contract having expired. This is a position that the CM Division head would like to create in the future when possible. The DOW Construction Management division has had an extremely difficult time attracting and retaining qualified staff and continues to implement a plan to deal with the problem. The delays in DPS related to reallocations displaced a project assistant to take a promotion in the inspection section. Project Managers are difficult to attract and retain in the same sense as engineers since it is nearly the same requirement. The FY 2014-2015 budget requests reflect the efforts of the Construction Management Project Officer to lead a successful division. It will be vital that the DOW have support in this process to attract and recruit staff in a timely manner.

*Current Staff:*

**Dustin Moises, P.E.** – Construction Project Management Officer

*Vacant* - Waterworks Project Manager

*Vacant* - Project Assistant

**Daniel Kittredge** - Waterworks Inspector III

**Leo Anguay** - Waterworks Inspector II

**Alfred Levinthol** - Waterworks Inspector II

*Vacant* - Waterworks Inspector II

**Program Objectives**

The Construction Management Division is committed to conduct its business and operations in a safe and efficient manner and to achieve the following objectives:

- a. Improve the water facilities infrastructure by constructing new well sources, storage tanks and waterlines through its Water Plan 2020 CIP Program as assigned.
- b. Maintain and upgrade existing water facilities through the Water Plan 2020 CRP/CRPL Program as assigned.
- c. Coordinate construction and integration of privately constructed water system improvements, as assigned, that are dedicated into the DOW's system.
- d. Provide construction, engineering design, and inspectional services to ensure the assigned construction of water facilities adhere to plans and specifications and the standards and policies of the DOW.

The CM Division is primarily responsible for the construction and inspection of water projects such as reservoirs, pumping facilities and pipelines by planning, reviewing plan designs for constructability, preparing construction RFP documents and subsequent construction management, and inspecting water system improvements funded by the DOW as outlined in Water Plan 2020. The CM division is also

responsible for the construction management and inspection of all privately funded projects such as service laterals and subdivisions. The increase in private development over the last year has occupied much of the division's time and is expected to continue over the next year.

### **Program Highlights**

#### **DOW WP 2020 Project:**

During FY 2013-2014, the DOW's CM Division has made continued progress in utilizing the \$60 million Build America Bond (BAB) issuance of March 2010. The Division also manages funding from the State DOW of Health Drinking Water State Revolving Fund and acquired grant funding as well. The CM Division also manages funding from DOW sources such as the Water Utility General fund. In the process, the CM Division completed construction on several projects and several other projects are nearing completion.

The CM Division completed the DOW's only Water Plan 2020 project design during this fiscal year with the Lihue Baseyard Improvements (Building Design) and advertised for construction requests for proposals. Contractor selection was made and is awaiting Board funding approval.

The major project accomplishments by the CM Division on the DOW's Water Plan 2020 Projects during the period of July 1, 2013 through June 30, 2014 include:

The Construction Management Division completed the design and issued Construction RFP's for the following projects:

- PLH-39A-Lihue Baseyard Improvements for the DOW of Water

#### **Kekaha District**

- no projects were in construction

#### **Waimea District**

- no projects were in construction

#### **Hanapēpē District**

- Construction for the Rehabilitation of the Eleele Two (2) 0.4 MG Steel Tanks was completed

#### **Kalāheo District**

- no projects were in construction

#### **Kōloa-Lāwa'i-Omao District**

- no projects were in construction

#### **Līhu'e District**

- no projects were in construction

#### **Kapaa District**

- The Wailua Houselots Pipeline Replacement project was completed. This project was partially funded by a \$750,000 grant from DOH
- The Waipouli Main Replacement (Kūhi'ō Highway) was completed

- The Waipouli/Hauiki Roads Main Replacement was completed

#### **Moloa'a District**

- no projects in construction

#### **'Anini District**

- no projects in construction

#### **Kīlauea District**

- no projects in construction

#### **Hanalei District**

- The renovations to the Maka Ridge Well and Tank Pipeline and Access Road Renovations are in the construction phase and nearing completion

#### **Wainiha-Hā'ena District**

- The construction for the Wainiha Booster Pump and 0.10 MG Hā'ena Tank Renovation was completed

In summary, the CM division is currently managing various phases of approximately \$20.0 million of Water Plan 2020 projects. There is currently one (1) design consultant contract which is a carryover from Special Projects in total of approximately \$0.914 million. Another eight (8) projects are/were in various stages of construction, with a total value of approximately \$19.6 million.

#### **PRIVATE PROJECTS:**

The CM Division has managed numerous privately funded projects which include additional service laterals, detector checks, waterline extensions, hydrants, and appurtenances.

In total nearly seventy five (75) private projects were initiated during the fiscal year. The private projects require critical project management and inspection as they include review and approval of cost breakdowns, easements, conveyances, and as-builts.

There were several major subdivision projects that occurred but majority of time has been spent on individual laterals. The private sector development has increased since last fiscal year with the start of projects in Kukuiula, Anahola DHHL subdivision, Eleele Habitat for Humanity, Hokulei Village, Kapaa Longs, Rice Camp housing complex and others. Private projects are in design and are expected to increase during the next fiscal year.

#### **INITIATIVES:**

- 1) The CM Division has proposed allowing DOW Operations to once again install service laterals to reduce the requirements and overall costs on our customers while increasing revenue for DOW when the FRC increase is implemented. The directive draft has been provided to the *Acting* Manager for execution. Once this directive is implemented, it will allow the CM and Engineering Division to

concentrate on DOW Water Plan 2020 projects much more. It will also provide additional income to the DOW while saving on design and construction costs for the consumer since we can do it for less and much faster. It will eliminate formal designs, private contractors, conveyances, etc. It will be a win-win situation for everyone.

- 2) In addition to various County wide trainings, the CM Division staff completed various trainings throughout the fiscal year to stay updated, evolve and progress with the ever changing requirements related to water utility construction such as:
  - National Pollutant Discharge Elimination System (NPDES) workshop by all staff
  - Trench Excavation workshop by all staff
  - Construction Best Management Practices workshop by all staff.
  - Construction Management Division Head created a Water System Standards training process which all staff completed
  - Construction Management Division Head completed the AWWA Utility Management Program Certificate. The certificate program spanned approximately 6 months and provided expansive training of the following topics related to managing a water utility.
    - Introduction to the Utility
    - Basic Supervision
    - Hiring Employee & Rules
    - Management Responsibilities
    - Management Styles
    - Physical Infrastructure Management
    - Water Supplies & Demand Management
    - Establishing Leadership in the Organization
    - Planning the Utility
    - Building the Utility
    - Financing the Utility
- 3) After a successful pilot implementation of the electronic inspection journal process, the CM Division fully integrated electronic journaling to all projects currently managed. All WaterPlan 2020 and private construction projects are now documented electronically and available via the SharePoint CM Portal created by DOW IT Division. The CM Division continues to evolve with the paperless process and intends to transition to a more comprehensive construction management software in the coming years to include contract management, funding, procurement, and other aspects of construction management with the IT strategic plan that is based on this initial electronic implementation.

## **5. WATER QUALITY DIVISION**

### **Program Description**

The Water Quality Division consisting of two (2) Water Microbiologists and one (1) chemist is responsible for the quality and safety of the water provided by the Kauai DOW. The division oversees the DOW's compliance with the Environmental

Protection Agency's (EPA) Safe Drinking Water Act (SDWA). This entails that we meet the requirements of all the rules and regulations set forth by the SDWA. There are microbial and chemical aspects to the SDWA. Much of the required microbial testing is performed at the Water Quality Division's laboratory. Basic chemistry is performed in the Lab as well. Much of the more involved testing is done by Eurofins Analytical and the Hawaii Department of Health's Laboratory in Honolulu.

The Water Quality Division also provides in house testing for the DOW's Operations Division. Major main breaks and new infrastructure are tested for coliforms as well as other chemical/physical analysis. Wells are also tested for microbial contaminant on a regular basis as well as when new pumps are repaired or installed.

The Division also addresses customer inquiries regarding water quality and health/safety concerns. This is done by phone or in person (visits to customers).

The Division provides the data needed to complete the annual Consumer Confidence Reports (CCR).

*Current Staff:*

**Carl Arume** – Water Microbiologist IV

**Peggy Yoshioka** – Water Microbiologist III

**Andrew Canavan** – Chemist

**Program Objectives**

- a. Maintain good water quality in our current and future distribution systems
  - Continue compliance microbial sampling
  - Update sampling points as necessary reflecting population and community growth
  - Develop and implement a distribution monitoring and maintenance program
- b. Meet EPA-SDWA drinking water standards by working with the DOH's Safe Drinking Water Branch
  - Utilize SDWIS and SCRS data management systems
  - Meet sample deadlines
- c. Place more dedicated sampling stations in our distribution systems
  - Work with Ops to install dedicated sample stations
  - Work with Engineering to have stations installed in new subdivisions

**Program Highlights**

- a. The Water Quality Division's Sample Reservation and Collection System (SCRS) allow the DOW to schedule and track chemical samples more effectively. It also facilitates better coordination with DOH's Safe Drinking Water Branch.
- b. A new Autoclave is operational with a reverse osmosis system to feed pure water to Autoclave to extend its working life. The Ultrapure water is available to Operations for battery maintenance.

- c. Unregulated Contaminants Monitoring Rule (UCMR) 3 Phase I and II is complete for System 434 (except for a few sites that will be sampled this year). Phase I for System 400 to be completed in July 2014.
- d. Disinfection Byproduct Rule Stage 2 study is set to begin in October 2014.
- e. Meeting all existing Safe Drinking Water Act (SDWA) rules and standards.

## 6. **OPERATIONS DIVISION**

### **Program Description**

The Operations Division is responsible for maintaining and operating the Department's water distribution network, water storage facilities and water producing sources. This infrastructure provides potable water to approximately twenty-thousand (20,000) metered services in sufficient quantities, at adequate pressures, with minimum interruptions and of a quality safe and suitable for human consumption as mandated by the United States Environmental Protection Agency (USEPA) and the Safe Drinking Water Act. (SDWA)

As water is an essential commodity, emergency repairs and trouble calls are provided round-the-clock on an as-needed basis. In order to accomplish its mission, the Operations Division maintains and stocks a complete inventory of materials and supplies for assurances that repairs are completed in a timely manner. This Division handles the smaller construction projects and participates in large pipeline installation projects. It also initiates field engineering to ensure efficient operations. Along with the responsibilities of providing potable water, it provides the DOW's fleet management functions and is responsible for the maintenance, repairs and replacement of vehicles and equipment.

Under the direction of the Chief of Operations, the Division consists of the Plant Operations Section and the Field Operations Section. There are forty two (42) permanent positions budgeted for the Division for FY 2013-2014.

#### *Current Staff:*

**Valentino Reyna** – Chief of Water Operations

**Ryan Smith** – Assistant Chief of Water Operations

**Chris Nakamura** - Water Service Supervisor III

**Virgil R. H Kapanui** - Water Service Supervisor III

**Amy Kiyotsuka** - Account Clerk

**Rena Horikawa** - Clerk Dispatcher II

**Edwin T.N Ramos** - Automotive Mechanic I

**Shayce L. Yasutake** - Automotive Mechanic II

Peter	Sapinoso	Equipment Operator II
Larry	Dabin	Equipment Operator II
Corey	Silva	Equipment Operator II
Raymond A.F. Jr.	Chow	Lead Pipefitter
Brian	Fujii	Lead Pipefitter
Alan	Iwsaki	Lead Pipefitter



Warren	Rita	Lead Pipefitter
Craig	Shirai	Lead Pipefitter
Franklin	Iwai	Pipefitter
Casey	Kaohelauii	Pipefitter
Selwyn	Rita	Pipefitter
Jeffery	Silva	Pipefitter
Randal	Watanabe	Pipefitter
Darren	Horner	Pipefitter Helper
Russell	Yonohara	Pipefitter Helper
Clyde	Kojiri	Maintenance Worker I
Darren H.	Galas	Maintenance Worker I
Serafin S. Jr.	Galvaz	Maintenance Worker II
Russell	Coyaso	Maintenance Worker II
Darwin P.	Bukoski	Plant Electrician
Ricardo	Delgado-Navarro	Plant Electrician Helper
Jarret	Medeiros	Utility Worker
Kevin JK	Pongasi	Water Meter Mechanic
Lance	Nakata	Water Plant Operator I
Galen	Shigeta	Water Plant Operator I
David	Okamoto	Water Plant Operator II
Darren E.K.	Lizama	Water Service Investigator II
Neal	Iseri	Waterworks Electronics/Plant Electrical Tradesperson II

### **Program Objectives**

The Operations Division's daily activities are centered along the following:

- a. Operating, monitoring and maintaining fifty-two (52) deep-well pumping stations, nineteen (19) booster pumping stations along with its associated electrical motor control centers and chlorination disinfection equipment, four (4) tunnel sources, sixty (60) storage tanks, and seventy-five (75) control valve stations.
- b. Maintaining, repairing, and replacing mechanical and electrical malfunctioning components, equipment and infrastructure to maintain water service.
- c. Maintaining and repairing the DOW's forty- six (46) vehicles, two (2) backhoes, four (4) skid steer loaders along with their various attachments, one mini-excavator, one (1) portable air compressor, twelve (12) trailers, fifteen (15) trailer-mounted generators ranging in sizes from seventy (70) KW to four hundred (400) KW, two (2) light towers, two (2) directional arrow boards and numerous motorized hand-operated construction equipment.
- d. Operating, monitoring and maintaining four hundred (400) + miles of pipelines and approximately more than twenty-thousand (20,000) consumer water service connections and meters, four thousand (4,000) + valves, twenty-four hundred (2400) + hydrants and standpipes.
- e. Installing new service connections and meters including the replacement of defective meters and those in service for twenty (20) years. Providing temporary water services through hydrant meter connections for construction activities like dust control and landscaping.

## **Program Highlights**

### **Field Operations Section Statistics      FY 2013 – 2014**

• Various leak repairs (transmission and distribution lines) .....	460
• Install Service Lateral .....	21
• Install New Meters .....	110
• Replace Defective Meters .....	77
• Replace Meter Box and Cover .....	11
• Live Taps and Contractor Waterline Shutdowns .....	51
• One Call Center Tickets (requests for markings) .....	270
• Fire Hydrant Preventative Maintenance .....	387
• Fire Hydrant Corrective Maintenance and Replacements .....	23
• Temporary Fire Hydrant Meter Installations .....	5

### **Plant Operations Section**

1. Extend Lawai Well #1 chlorine room, install doorway, replace corrugated metal roof, install new rollup door, paint building and discharge piping.
2. Perform repairs to Kilauea System submaster SCADA station, replace SCADAPak and radio.
3. Install drinking fountain in auto shop.
4. Perform repairs following large storm in December 2013:
  - a. Troubleshoot and repair Waipao Valley Well hydro tank.
  - b. Troubleshoot and repair Koloa Well E MCC, blown fuses.
  - c. Hanapepe Well B m.s. unit & comm module blown, remove & replace control fuses. Remove rocks from inside facility fence.
  - d. Hanapepe Well A m.s. unit & comm module blown, 480 fuses blown to voltage monitor unit, replaced same. Perform repairs to MCC, develop new electrical wiring schematic, no accurate schematic existed.
  - e. Repair approach to Paua Valley Wells, cover exposed pipeline, create temporary swales.
  - f. Complete repairs to Paua Valley access road, dig new ditches alongside road to return drainage to normal pattern.
5. Perform repairs to Haena Deep Well site:
  - a. Put screen on end of dump to waste PVC line.
  - b. Remove vegetation from surrounding fence line.

- c. Fix screen on chlorine room.
- d. Change "Danger Gas Chlorine" sign to "Danger Chlorine".
- 6. Remove & replace Medeiros Booster Pump unit with new, unit failed causing loss of water to Medeiros meter.
- 7. Remove & replace Puhi Well 5A booster pump.
- 8. Remove & replace gate valves, 4" PRV, and 6" PRV at Hanamaulu Booster Pump station.
- 9. Fabricate cover for large valve box at intersection of Maluhia Rd and Koloa Rd.
- 10. Install water quality sampling station on Aliomanu Rd near Hydrant T-19.
- 11. Locate and mark water line at Poipu Well F for Grove Farm irrigation line install/road work.
- 12. Repair airline connection at Baseyard outside of Clerk Dispatchers window.
- 13. Repair cracked PVC on ARV vent at Wailua Homesteads Well #1.
- 14. Remove discharge piping, hydrant meter, and prelube piping/meter from AMFAC Shaft Well.
- 15. Power wash sidewalks in front of Admin building.
- 16. Replace a multitude of burnt out lights and ballasts in Admin Office, Micro Lab, and Ops Buildings.
- 17. Perform routine servicing on all DOW vehicles.
- 18. Clean debris from Hanapepe Stream crossing following large rain event.
- 19. Remove & replace Kukuilono Hydro cell air compressor to supply water to Kukuilono Golf Course.
- 20. Troubleshoot Puhi 510 Tanks pressure transmitter, fabricate cover to shelter transmitter from rain.
- 21. Remove and replace Lawai Well #2 due to failed pump and burnt motor.
- 22. Remove and replace Kalaheo Well #2 due to failed pump, remove Kalaheo Well #1 and install temporary submersible pump for emergency water, install temporary booster pump to transmit water from Lawai to Kalaheo.
- 23. Lock-out Tag-out Kilohana Well B, failed pump.
- 24. Lock-out Tag-out Grammar School Well, failed pump.
- 25. Lock-out Tag-out Kekaha Shaft, burnt motor.

26. Lock-out Tag-out Hanapepe Cliffside BP and remove burnt motor.
27. Repair and maintain silt fence at baseyard stockpile.
28. Repair CK1816.
29. Troubleshoot A/C power fail at Kilauea Well site.
30. Jobs completed on a daily basis by plant operators, electricians, and maintenance crews:
  - a. Routine small valve maintenance on ARVs, PRVs, chlorine injection valves, and pump control valves.
  - b. Change out damaged pressure transmitters, motor savers, fuses, comm modules, sequence timers, and pressure switches.
  - c. Maintain remote site grounds, ditches, and perform small repairs to pump appurtenances.
31. Fabricate 200# pressure gage for CK2163.
32. Performed Vehicle safety inspections for all DOW vehicles.
33. Repair belt and A/C in CK2049.
34. Coordinate PUC safety checks for DOW vehicles.
35. Repair Crane truck running lights, reverse alarm, and hydraulic leaks.
36. DOW Forklift – remove rust and treat, replace fan, repair hydraulic rams.
37. CK2047 – assess and repair truck pulling to left while driving.
38. CK1759 – diagnose and repair truck stalling on road in Hanalei.
39. CK2049 – PTO trans seal leaking, repair.
40. CK1790 – diagnose and repair engine noise, black smoke coming from engine, replace engine with new/used.
41. CK1965 – replace two front tires.
42. Komatsu Backhoe – replace window wiper washing system.
43. CK2047 – replace two front worn tires.
44. CK1786 – service vanair rotary screw compressor.
45. CK1786 – repair injector circuit.
46. CK0577 – top off oil in hubs.

47. SSL-3 – seals leaking, repair.
48. CK2143 – repair corroded connection for left rear backup light.
49. CK1972 – repair oil leaking from back of engine.
50. SSL-4 – seals leaking, repair.
51. Fix East Side pusher, would not go in reverse.
52. CK1785 – truck not starting, diagnose and repair starter.
53. CK1602 – emergency repair tailgate lift switch broke, repair.
54. CK1973 – leaking coolant, diagnose and fix.
55. CK1792 – truck leaking coolant, repair.
56. CK1973 – truck leaking coolant from top of engine, diagnose and repair.
57. CK2166 – valve stem indicator bad, diagnose and fix.
58. Komatsu Backhoe – rear view mirror broken, replace.
59. CK2160 – replace all four worn tires.
60. CK1602 – truck leaking coolant internal, diagnose and fix.
61. Toyota Forklift – fork adjustment cylinder leaking oil, break down and replace seals.
62. Toyota Forklift – belt squealing, adjust tensioner, fix belt.
63. CK1957 – ABS traction control light on, diagnose and fix.
64. CK1785 – emergency call, truck check gages and overdrive light flashing, diagnose and repair.
65. CK2067 – fix flat tire.
66. CK1961 – oil leaking from bottom of engine, diagnose and repair.
67. Gasoline Storage Tank pump not working, repair fuel sensor.
68. CK2048 – emergency call, truck not starting, diagnose and repair.
69. CK1591 – truck bed does not go up or down, diagnose and repair cylinder.
70. CK1602 – oil leaking from right side of engine, diagnose and repair.
71. CK2143 – front left tire has 7 holes in it, replace tire.
72. Kubota -mower, right side blade free spinning, diagnose and repair.

73. CK2161 – emergency call, truck not starting, replace MAF sensor and program computer.
74. CK1973 – squealing from rear tires and coolant leaking, repair.
75. CK2143 – left rear tire flat, sidewall damage, replace tire
76. CK1636 – seatbelt not latching, replace.
77. CK1786 – emergency call, truck not starting, diagnose and fix.
78. CK1816 – compressor not working, repair.
79. CK2134 – recall on inverter module, replace all four worn tires.
80. CK1784 – power steering fluid leaking, replace rack and pinion and hoses.
81. CK2020 – truck not starting, diagnose and fix problem.
82. CK0577 – trailer left side running lights not working, repair.
83. Kubota Mower, blades not turning, replace parts.
84. CK1758 – truck not starting, replace battery and fuel pump.
85. CK1911 – brakes not working and heater making noise, diagnose and repair.
86. CK1957 – truck not starting, diagnose and fix.
87. CK1958 – replace two front worn tires.
88. CK1636 – replace two front worn tires.
89. CK1961 – replace two front worn tires.
90. CK1602 – repair bent side step.
91. Ck1784 – lift gate not working, diagnose and repair.
92. CK1771 – passenger side brake light not working, repair.
93. CK2143 – right rear tail light not working, replace.
94. CK1816 – tailgate latch, seat, and dump bed not working, repair.
95. CK2047 – engine grinding while idling, repair.
96. CK2049 – compressor cooling fan not turning on, repair.
97. CK1771 – coolant shooting out and steam coming from engine, repair.
98. CK2020 – driver side window not working, repair.



99. CK2048 – replace headlight, alignment, dome light, license plate light, strobe, and tires.
100. CK2163 – fix tire pressure warning sensor.
101. Takeuchi Excavator – emergency call, bucket broken, remove and replace with rental.
102. CK1816 – strobe light not working, repair.
103. CK1785 – loud grinding noise coming from turbo, repair.
104. CK1792 – coolant leaking from radiator, replace.
105. CK1591 – truck not shifting into gear, diagnose and fix.
106. CK1771 – driver side window stuck, replace regulator assembly and 2 worn rear tires.
107. CK1679 – replace bad fuel pump.
108. CK2160 – replace flat tire, side wall damage.
109. Plate Compactor, replace belt and service.
110. CK1679 – car won't start, replace starter.
111. CK2049 – replace worn tires and align.
112. CK1678 – A/C broken, repair.
113. CK1792 – battery light illuminated on dash, replace alternator.
114. CK1771 – replace two worn front tires, window regulator.
115. CK1958 – replace flat tire.
116. CK2049 – emergency call, car smashed into back of truck, coordinate repairs w/ insurance.
117. CK2162 – accessory outlet not working, repair.
118. CK1965 – fuel filler hose on truck bent, repair.
119. CK1792 – emergency call, truck broke down, repair.
120. CK1973 – left rear airbag suspension has hole, replace.
121. CK2128 – loud noise coming from bottom of truck, diagnose and repair.
122. CK1476 – get Vactor trucks working, replace batteries.
123. CK1792 – truck leaking coolant from reservoir, repair.

- 124. CK1965 – left rear inner tire flat, replace.
- 125. CK1961 – repair hole in roof.
- 126. CK1965 – emergency call, truck tire blew out, replace.
- 127. CK1678 – A/C blowing warm, recall, and cracking water pump belt, repair.
- 128. CK2047 – align truck tires.
- 129. SSL4 – skid steer not starting up, repair starter.
- 130. Komatsu Backhoe – transmission fluid level low, repair.
- 131. CK1911 – truck won't start, diagnose and repair.
- 132. CK1786 – coolant leak from bottom of engine, repair.
- 133. CK1602 – pneumatic trailer hitch not working, repair.
- 134. CK1602 – running lights not working, repair.
- 135. CK1786 – replace two front worn tires.
- 136. CK1785 – repair turbo, not working properly.
- 137. CK2122 – ABS and traction control light illuminated on panel, diagnose and repair.
- 138. CK1602 – replace brake switch assembly for trailer emergency brake.
- 139. Kubota mower – will not start, replace starter.
- 140. CK1380 – repair crane truck leaking hydraulic fluid.
- 141. Toyota forklift – replace rear worn tires and repair brakes.
- 142. CK1758 – thermostat housing leaking coolant, repair.
- 143. CK1769 – power steering pressure switch leaking fluid, repair.

#### **Other Program Highlights for FY 2013 – 2014**

- a. The Water Plant Superintendent was promoted to Assistant Chief of Operations. The Water Plant Superintendent position is currently vacant and on continuous recruitment.
- b. The vacant Plant Electrician Helper position was filled.
- c. The vacant Water Service Investigator was filled.

- d. One (1) field operations repair truck was delivered while one (1) dump truck was purchased and awaiting delivery.
- e. Assisted other Divisions by repairing distribution lines damaged by contractors working on pipe replacement projects associated with Water Plan 2020.
- f. Assisted other Divisions in construction plan review of DOW facilities improvements, expansions, repairs and maintenance.
- g. The Department of Health conducted Sanitary Surveys in our Kalaheo, Lawai, Omao, Poipu and Koloa Water Systems this past fiscal year.
- h. Procured the professional services for the maintenance of island-wide SCADA system and the DOW's Maintenance Management System.
- i. Our Water Plant Operators are working at some of our deepwell sites to convert the existing gas chlorination disinfection systems to liquid sodium hypochlorite disinfection systems. For fiscal year 2013-2014, three (3) sites were converted to sodium hypochlorite.
- j. On several occasions, field operations personnel assisted Construction Management Division's Water Plan 2020 contractors performing overnight work and tie-ins by operating valves and going house-to-house notifying customers and residents of planned water outage to allow the contractors to tie-in to existing water mains.
- k. Emergency construction contract was procured to repair and replace damaged parts and pumps at Kalaheo Deepwells 1 and 2.
- l. Emergency construction contract was procured to install temporary above-ground mainline to supplement water delivery to Kalaheo.
- m. Operations Division personnel performed in-house construction, repair, maintenance of remote site access roadways and structures.
- n. Field operations personnel assisted the Parks and Recreation Department is locating and repairing damaged waterline servicing the Wailua Golf Course.
- o. Operations Division personnel worked with Water Quality Division, Department of Parks and Recreation, and Department of Public Works in truck delivery of water to the Kalaheo Tank site to ensure fire flow availability during the Kalaheo water outage.
- p. Continue in-house replacement of 2,500 feet of deteriorated 2" PVC mainline along Hehi Road in Hanamaulu.
- q. Completed in-house replacement of deteriorated service laterals along Hanamaulu Road.

- r. Coordinated with Hawaii Rural Water Association for training and guidance in water audits as well as reduction of non-revenue water.

## **7. FISCAL DIVISION**

### **Program Description**

The Fiscal Division is responsible for administering the fiscal programs of the DOW. Under the direction of the Waterworks Controller, the Division consists of Accounting Section and Consumer Service/Billing Section. There were 19 permanent positions budgeted for the division for FY 2013-14. Programs of the Division include:

- a. Administering the general and customer accounting systems including cash management, cost accounting, payroll, leave records, accounts payable, general and utility plant accounting, consumer billing and accounting, and meter reading.
- b. Prepares financial and statistical reports: Conduct internal audits and financial and statistical studies of the DOW for reports and rate making.
- c. Assists the Manager in the development of the annual budget.

#### *Current Staff:*

**Marites Yano** – Waterworks Controller

**Fay Tateishi** – Accountant IV

**Anne Parrott** – Accountant III

**Karen Ann Delgado** – Accountant II

**Rosemarie Navea** – Accountant I

*Vacant* – Accountant I

**Laurien Hardwick** – Account Clerk

**Analyn Flores** – Accountant IV Billing Supervisor

**Elaine Ruiz** – Accountant II

**Mona Yamauchi** – Customer Relations Assistant

*Vacant* – Customer Service Representative II

**Norma Imada** – Customer Service Representative II

**Candice Tada** – Customer Service Representative I

**Gloria Rafael** – Meter Reader and Field Collection Supervisor

**Elliot Jung** - Meter Reader and Field Collection Representative

**Eugemar Manibog** - Meter Reader and Field Collection Representative

**Ronald Balbin** - Meter Reader and Field Collection Representative

### **Program Objectives**

#### **Waterworks Controller**

- a. Administer the affairs of the Fiscal Division and all programs assigned to it.
- b. To preserve the financial integrity of the DOW through internal control and annual financial audits.
- c. To generate a return of investments and to insure deposits with financial institutions are fully collateralized.
- d. Ensuring the availability of funds to meet cash flow requirements.

#### **Accounting**

- a. To provide accurate, complete, and timely recording and reporting of the financial transactions and activities of the DOW.
- b. To process the DOW's payroll in a timely manner.
- c. To process accounts payable and issue payments in a timely and efficient manner.
- d. Accountability of the Utility Plant Assets and Property.

#### Consumer Service

- a. To provide timely billing, collection, accounting and depositing of water bills and jobbing invoices.
- b. Process meter applications and new services.
- c. Service customers who inquire about billing, payment and collection matters.
- d. Maintain records of accounts receivable.

#### Program Highlights

- a. Water sales and other revenues for the fiscal year ended June 30, 2014 amounted to \$ 26.4 million. The DOW provided water service to approximately 21,263 customer accounts and the quantity of water sold totaled 3.997 billion gallons.
- b. Operating expenses and debt service amounted to \$22.65 million; \$8.26 million of which was for debt service, while cost of water purchased and electrical power purchased for pumping amounted to \$1.56 million and \$3.24 million respectively which represent the other major components of our total operating expenses.
- c. The DOW implemented a bi-monthly billing conversion to monthly Customer Care & Billing (CC&B) system through a hosted program by the Honolulu Board of Water Supply (HBWS).
- d. The DOW completed the IT Strategic Review, Planning and Implementation Strategy in FY 2013. The board approved a 5 year IT Strategic plan as recommended by the IT Consultants. The 1st phase which is the re-implementation of a new Financial Accounting System (FAS) was completed and implemented effective July 1, 2015.
- e. A summary of changes in the physical assets of the DOW is presented on the following pages:

**Kauai County - Department  
of Water  
June 30, 2013  
Utility Plant Additions**

Date	Job / Work Order	Description	Asset	Account	Amount
6/30/2014	Job 03-02	Wainiha Booster Pump Building	Job 03-02 Wainiha Booster Pump Building	321	1,222,251.11
			<b>Total 321 - Structures &amp; Improvements - Pumping</b>		<b>1,222,251.11</b>

7/31/2013	C130812	Anahola Tank A premium efficient motor	50HP Hollow Shaft Vertical Turbine Pump Motor	325	10,334.50
7/31/2013	C130813	Garlinghouse premium efficient motor	50HP Hollow Shaft Vertical Turbine Pump Motor	325	11,982.00
10/31/2013	Job 02-08	Eleele Twin Tanks	Job 02-08 Eleele Twin Tanks	325	97,011.65
11/30/2013	Job 12-09	Soft starters, correction capacitors	Job 12-09 Soft starters, correction capacitors	325	73,722.00
11/30/2013	C130814	Maka Ridge Well 73 premium efficient motor	30HP Hollow Shaft Vertical Turbine Pump Motor	325	13,869.84
12/31/2013	C112148	Kalepa back pressure influent valve	Electical Components	325	10,558.20
6/30/2014	C130816	KCC Well Premium Efficient Motor	KCC Well Premium Efficient Motor	325	11,693.17
6/30/2014	C130817	Koloa Well D Premium Efficient Motor	Koloa Well D Premium Efficient Motor	325	19,148.00
6/30/2014	C130818	Nonou Well C Premium Efficient Motor	Nonou Well C Premium Efficient Motor	325	14,881.83
6/30/2014	C130819	Nonou Well B Premium Efficient Motor	Nonou Well B Premium Efficient Motor	325	13,808.00
6/30/2014	C130820	Hanapepe Well 2 Premium Efficient Motor	Hanapepe Well 2 Premium Efficient Motor	325	12,416.48
6/30/2014	C130821	Puhi Well 5B Premium Efficient Motor	Puhi Well 5B Premium Efficient Motor	325	14,173.00
6/30/2014	C130822	Kapilimao Valley Well Premium Efficient Motor	Kapilimao Valley Well Premium Efficient Motor	325	12,811.50
6/30/2014	C130823	Koloa Well 16-A Premium Efficient Motor	Koloa Well 16-A Premium Efficient Motor	325	18,887.00
6/30/2014	C130955	Kilauea Deep Well #1 Premium Efficient Motor	Kilauea Deep Well #1 Premium Efficient Motor	325	25,751.68
			<b>Total 325 - Electric Pumping Equipment</b>		<b>361,048.85</b>
10/31/2013	Job 02-08	Eleele Twin Tanks	Job 02-08 Eleele Twin Tanks	331	31,575.09



			<b>Total 331 - Water Treatment Structures</b>		<b>31,575.09</b>
10/31/2013	Job 02-08	Eleele Twin Tanks	Job 02-08 Eleele Twin Tanks	332	2,246,982.56
6/30/2014	Job 03-02	Haena Steel Tank	Job 03-02 Haena Steel Tank	332	672,770.68
			<b>Total 342 - Reservoirs &amp; Standpipes</b>		<b>2,919,753.24</b>
10/31/2013	Job 04-03	Pipelines, Waipouli, Hauiki, Olohena Roads	Job 04-03 Pipelines, Waipouli, Hauiki, Olohena Roads	343	1,783,880.72
10/31/2013	Job 02-19	Waipouli Main Replacement	Job 02-19 Waipouli Main Replacement	343	2,004,521.40
6/30/2014		Puu Aloha LLC & Francis RMK P Transmission Line	Puu Aloha LLC & Francis RMK P Transmission Line	343	134,806.00
6/30/2014		Koloa Missionary Chrch Job#82	Koloa Missionary Church Job#82	343	3,854.14
6/30/2014		Finlay, R - TMK 4-2-8-31:179	Finlay, R - TMK 4-2-8-31:179	343	3,386.00
6/30/2014		Kawaikini Sch/ 4-3-07:1,2 & 3	Kawaikini Sch/ 4-3-07:1,2 & 3	343	11,260.00
6/30/2014	Job 02-15	Wailua Houselots Main Replacement	Job 02-15 Wailua Houselots Main Replacement	343	4,292,184.69
			<b>Total 343 - Transmission &amp; Distribution Mains</b>		<b>8,233,892.95</b>
7/31/2013	Services	Services, July 2013	Copper, 1"	345	3,926.62
8/31/2013	Services	Services, August 2013	Copper, 1"	345	17,492.31
9/30/2013	Services	Services, September 2013	Copper, 1"	345	11,181.99
10/31/2013	Services	Services, October 2013	Copper, 1"	345	9,805.92
11/30/2013	Services	Services, November 2013	Copper, 1"	345	2,129.56
12/31/2013	Services	Services, December 2013	Copper, 1"	345	3,459.19
1/31/2014	Services	Services, January 2014	Copper, 1"	345	4,652.69
2/28/2014	Services	Services, February 2014	Copper, 1"	345	2,279.37
3/31/2014	Services	Services, March 2014	Copper, 1"	345	3,139.02
4/30/2014	Services	Services, April 2014	Copper, 1"	345	5,068.27
5/31/2014	Services	Services, May 2014	Copper, 1"	345	3,396.15
6/30/2014	Services	Services, June 2014	Copper, 1"	345	2,737.21
7/31/2013	Services	Services, July 2013	Copper, 1",Additional Cost	345	2,331.00
8/31/2013	Services	Services, August 2013	Copper, 1",Additional Cost	345	7,561.50
9/30/2013	Services	Services, September 2013	Copper, 1",Additional Cost	345	2,896.69

10/31/2013	Services	Services, October 2013	Copper, 1",Additional Cost	345	2,732.50
11/30/2013	Services	Services, November 2013	Copper, 1",Additional Cost	345	4,194.50
12/31/2013	Services	Services, December 2013	Copper, 1",Additional Cost	345	3,342.62
1/31/2014	Services	Services, January 2014	Copper, 1",Additional Cost	345	3,188.50
2/28/2014	Services	Services, February 2014	Copper, 1",Additional Cost	345	972.50
3/31/2014	Services	Services, March 2014	Copper, 1",Additional Cost	345	2,890.00
4/30/2014	Services	Services, April 2014	Copper, 1",Additional Cost	345	2,600.00
5/31/2014	Services	Services, May 2014	Copper, 1",Additional Cost	345	3,399.11
6/30/2014	Services	Services, June 2014	Copper, 1",Additional Cost	345	1,637.50
10/31/2013	Services	Services, October 2013	PVC	345	2,472.50
10/31/2013	Job 04-03	Pipelines, Waipouli, Hauiki, Olohena Roads	Job 04-03 Pipelines, Waipouli, Hauiki, Olohena Roads	345	20,922.63
10/31/2013	Job 02-19	Waipouli Main Replacement	Job 02-19 Waipouli Main Replacement	345	81,674.82
6/30/2014		Puu Aloha LLC & Francis RMK P Transmission Line	Puu Aloha LLC & Francis RMK P Transmission Line	345	7,247.00
6/30/2014		Koloa Missionary Chrch Job#82	Koloa Missionary Church Job#82	345	51,727.63
6/30/2014		Finlay, R - TMK 4-2-8-31:179	Finlay, R - TMK 4-2-8-31:179	345	2,965.00
6/30/2014		Kawaikini Sch/ 4-3-07:1,2 & 3	Kawaikini Sch/ 4-3-07:1,2 & 3	345	11,700.00
6/30/2014	Job 02-15	Wailua Houselots Main Replacement	Job 02-15 Wailua Houselots Main Replacement	345	420,653.07
6/30/2014		Robinson Fam Prtnrs Sub2006-1	Robinson Fam Prtnrs Sub2006-1	345	55,111.43
6/30/2014		R.Q. Coffman Trust Job# 833	R.Q. Coffman Trust Job# 833	345	6,178.00
6/30/2014		D&M Alfiler Job# 880	D&M Alfiler Job# 880	345	6,300.00
6/30/2014		C. A. Nii TMK 3-2-002:05 & 07	C. A. Nii TMK 3-2-002:05 & 07	345	7,000.00
6/30/2014		Tyler Yates Job# 798	Tyler Yates Job# 798	345	6,733.00
6/30/2014		JAN INC. TMK# 2-8-008-34 & 41	JAN INC. TMK# 2-8-008-34 & 41	345	20,000.00

6/30/2014		Homestead Comm Dev Job# 858	Homestead Comm Dev Job# 858	345	9,680.00
6/30/2014		Manzano J. Job# 841	Manzano J. Job# 841	345	9,824.00
6/30/2014		Gleason, C&P Job# 908	Gleason, C&P Job# 908	345	9,500.00
6/30/2014		Flores, V - SSL	Flores, V - SSL	345	6,500.00
6/30/2014		Oda, K Job # 921	Oda, K Job # 921	345	6,500.00
6/30/2014		Chang, D Job# 778	Chang, D Job# 778	345	12,000.00
6/30/2014		Nishida, J. Job# 874	Nishida, J. Job# 874	345	13,325.00
6/30/2014		Sakamoto, R - Job# 914	Sakamoto, R - Job# 914	345	9,500.00
6/30/2014		Aranda, V&R Job# 879	Aranda, V&R Job# 879	345	7,000.00
6/30/2014		JM DeSilva Estates Job# 901	JM DeSilva Estates Job# 901	345	7,000.00
6/30/2014		Bosshard, L. Job# 906	Bosshard, L. Job# 906	345	5,000.00
6/30/2014		Vaughn, J. Job# 873	Vaughn, J. Job# 873	345	5,500.00
6/30/2014		Strickland, G.- 4-4-8- 013:018	Strickland, G.- 4- 4-8-013:018	345	6,800.00
6/30/2014		Wright, P Trustee & Haskin R&	Wright, P Trustee & Haskin R&	345	8,000.00
6/30/2014		Siena Holdings LLC	Siena Holdings LLC	345	58,018.00
6/30/2014		Kaneshiro, A / 2-7- 008:051	Kaneshiro, A / 2- 7-008:051	345	8,720.00
6/30/2014		White, R&C/ 4-3-2- 02:036	White, R&C/ 4-3- 2-02:036	345	7,500.00
6/30/2014		Rapetti, J&D - 4-4-6- 17:78	Rapetti, J&D - 4- 4-6-17:78	345	12,000.00
			<b>Total 345 - Services</b>		<b>1,010,066.80</b>
7/31/2013	Meters Installation	Meters Installed, July 2013	Meter, 5/8"	346	4,199.76
8/31/2013	Meters Installation	Meters Installed, Aug 2013	Meter, 5/8"	346	6,474.63
9/30/2013	Meters Installation	Meters Installed, Sept 2013	Meter, Various Sizes	346	5,952.94
10/31/2013	Meters Installation	Meters Installed, Oct 2013	Meter Various Sizes	346	8,070.79
11/30/2013	Meters Installation	Meters Installed, Nov 2013	Meter, 5/8"	346	9,799.44
12/31/2013	Meters Installation	Meters Installed, Dec 2013	Meter Various Sizes	346	16,953.99
1/31/2014	Meters Installation	Meters Installed, Jan 2014	Meter Various Sizes	346	6,843.42

2/28/2014	Meters Installation	Meters Installed, Feb 2014	Meter, 5/8"	346	3,674.79
3/31/2014	Meters Installation	Meters Installed, Mar 2014	Meter Various Sizes	346	4,136.78
4/30/2014	Meters Installation	Meters Installed, Apr 2014	Meter Various Sizes	346	3,557.28
5/31/2014	Meters Installation	Meters Installed, May 2014	Meter, 5/8"	346	4,448.50
6/30/2014	Meters Installation	Meters Installed, June 2014	Meter Various Sizes	346	6,091.37
			<b>Total 346 - Meters</b>		<b>80,203.69</b>
7/31/2013	C131067	Replace hydrant on Kilauea Rd., Kilauea	(1) 2.5" x (1) 4.5"	348	2,045.29
7/31/2013	C131108	Replace hydrant on Panau Road, Koloa	(1) 2.5" x (1) 4.5"	348	1,888.62
7/31/2013	C131110	Replace hydrant on Moi & Eleu Rds., Hanapepe	(1) 2.5" x (1) 4.5"	348	1,782.83
7/31/2013	C131243	Replace hydrant on Moi & Alii Rds., Hanapepe	(1) 2.5" x (1) 4.5"	348	1,965.33
7/31/2013	C131255	Replace hydrant on Aewa St., Hanapepe	(1) 2.5" x (1) 4.5"	348	1,828.83
8/31/2013	C131374	Replace hydrant on Rice St., Lihue	(1) 2.5" x (1) 4.5"	348	1,815.29
8/31/2013	C130594	Replace hydrant Kiahuna Plantation Cottages	(1) 2.5" x (1) 4.5"	348	1,970.83
10/31/2013	C131645	Replace hydrant on Kaumualii Hwy., Lawai	(1) 2.5" x (1) 4.5"	348	2,873.67
10/31/2013	C131746	Replace hydrant on Puuwai Road, Kalaheo	(1) 2.5" x (1) 4.5"	348	1,992.05
10/31/2013	C131757	Replace hydrant on Puuwai Road, Kalaheo	(1) 2.5" x (1) 4.5"	348	1,897.29
10/31/2013	C131758	Replace hydrant on Kawaihau Road, Kapaa	(1) 2.5" x (1) 4.5"	348	1,828.83
10/31/2013	C131848	Replace hydrant on Ulukukui Subd., Lihue	(1) 2.5" x (1) 4.5"	348	1,828.83
10/31/2013	C131849	Replace hydrant on Eliki Place, Lihue	(1) 2.5" x (1) 4.5"	348	1,828.83
10/31/2013	C131852	Replace hydrant on Kawaihau & Waiakea Roads, Kapaa	(1) 2.5" x (1) 4.5"	348	2,083.39
10/31/2013	C131853	Replace hydrant on Kawaihau Road, Kapaa	(1) 2.5" x (1) 4.5"	348	1,839.14
11/30/2013	C131949	Pono Street and Kuamoo Road, Kapaa	(1) 2.5" x (1) 4.5"	348	2,344.34
6/30/2014	C141040	Papalina Road, Kalaheo	(1) 2.5" x (1) 4.5"	348	2,477.34
6/30/2014	C141041	Papalina Road, Kalaheo	(1) 2.5" x (1) 4.5"	348	2,477.34
6/30/2014	C130109	Ulu St & Koa St, Wailua	(1) 2.5" x (1) 4.5"	348	9,452.18
6/30/2014	C131783	Menehune Road, Waimea	(1) 2.5" x (1) 4.5"	348	11,618.21
6/30/2014	C131927	Kamalu Road, Wailua	(1) 2.5" x (1) 4.5"	348	2,252.34

6/30/2014	C132189	Waiahi St, Lihue	(1) 2.5" x (1) 4.5"	348	2,639.22
6/30/2014	C140181	Puulima Rd., Kalaheo	(1) 2.5" x (1) 4.5"	348	2,377.71
6/30/2014	C140182	Puhi Road, Puhi	(1) 2.5" x (1) 4.5"	348	2,556.34
6/30/2014	C140226	Kaehulua Rd., Kapaa	(1) 2.5" x (1) 4.5"	348	2,268.34
6/30/2014	C140228	Kaehulua Rd., Kapaa	(1) 2.5" x (1) 4.5"	348	2,268.34
6/30/2014	C140274	Puuwai Rd., Kalaheo	(1) 2.5" x (1) 4.5"	348	2,344.34
6/30/2014	C140275	Puu Road, Kalaheo	(1) 2.5" x (1) 4.5"	348	2,764.49
6/30/2014	C140276	Puu Road, Kalaheo	(1) 2.5" x (1) 4.5"	348	2,344.31
6/30/2014	C140284	Kuhio Hwy, Lihue	(1) 2.5" x (1) 4.5"	348	8,513.74
6/30/2014	C140339	Puuwai Rd., Kalaheo	(1) 2.5" x (1) 4.5"	348	2,430.99
6/30/2014	C140816	Aliuamanu Rd., Anahola	(1) 2.5" x (1) 4.5"	348	2,493.99
6/30/2014	C141023	Puhi Road, Puhi	(1) 2.5" x (1) 4.5"	348	2,436.34
6/30/2014	C141024	Opaekaa Road, Wailua	(1) 2.5" x (1) 4.5"	348	2,417.74
10/31/2013	Job 04-03	Pipelines, Waipouli, Hauiki, Olohena Roads	Job 04-03 Pipelines, Waipouli, Hauiki, Olohena Roads	348	48,354.52
10/31/2013	Job 02-19	Waipouli Main Replacement	Job 02-19 Waipouli Main Replacement	348	36,689.86
6/30/2014		Puu Aloha LLC & Francis RMK P	Puu Aloha LLC & Francis RMK P Transmission Line	348	3,150.00
6/30/2014		Puu Aloha LLC & Francis RMK P	Puu Aloha LLC & Francis RMK P Transmission Line	348	1,600.00
6/30/2014		Robinson Fam Prtnrs Sub2006-1	Robinson Fam Prtnrs Sub2006-1	348	15,939.07
6/30/2014	Job 02-15	Wailua Houselots Main Replacement	Job 02-15 Wailua Houselots Main Replacement	348	120,872.84
			<b>Total 348 – Hydrants</b>		<b>324,552.98</b>
			<b>Total Utility Plant Additions, FY 2014</b>		<b>14,183,344.71</b>

**Kauai County - Department Of Water**  
**June 30, 2014**  
**Utility Plant Abandonment**

<b>Job/Work Order Number</b>	<b>Job/Work Order Description</b>	<b>Master Asset ID</b>	<b>Description of Abandoned Asset</b>	<b>Qty.</b>	<b>Total Cost (Average)</b>
	Diff. Pressure	Foxboro IDP 10-T26R23 F	Puhi Well #4 Pump & Motor	1	951.61
	SCADA 016	Emerson Surge Protect - SCADA 016	SCADA 010	1	125.01
	Nonou DW B	Symcom NA (Elect 301)		1	432.65
	Nonou DW B Site	CSM-11 (Valve 072) Solenoid Control Valve		1	470.92
	Nonou C	EmersonHSP-121BTIRU (Scada 016)		1	125.01
	Waipao DW	Scada Pack 32 TBUP4-102-01-0-0		1	2,900.00
<b>Total 325 - Electric Pumping Equipment</b>				<b>6</b>	<b>5,005.20</b>
C131474	Wailua House Lots	Booster Pump, STARITE, JHE-63H,1 HP	Booster Pump, STARITE, JHE-63H,1 HP	1	4,484.09
	Garlinghouse	Booster Pump, STARITE,JHE-63HL,1HP	Booster Pump, STARITE,JHE-63HL,1 HP	1	4,484.09
	Waimea B	Booster Pump, STARITE,JHE-63HL,1HP	Booster Pump, STARITE,JHE-63HL,1 HP	1	4,484.09
	Boaster Pump	Booster Pump, STARITE,JHE-63HL,1HP	Booster Pump, STARITE,JHE-63HL,1 HP	1	4,484.09
	Paula Valley	Booster Pump, STARITE,JHE-63HL,1HP	Booster Pump, STARITE,JHE-63HL,1 HP	1	4,484.09
	Waimea DW 2	Booster Pump, STARITE,JHE-63HL,1HP	Booster Pump, STARITE,JHE-63HL,1 HP	1	4,484.09
	Nonou B - Motor Save	Sym Com Pump Saver #777 - KW/HP -P2	Sym Com Pump Saver #777 - KW/HP -P3	1	166.00
C131222	Hanapepe Wells	Sym Com Pump Saver #777 - KW/HP -P2	Sym Com Pump Saver #777 - KW/HP -P3	1	166.00

	Andrade - Lawai	Sym Com Pump Saver #777 - KW/HP -P2	Sym Com Pump Saver #777 - KW/HP -P3	1	166.00
	Kalepa Ridge Well	Sym Com Pump Saver #777 - KW/HP -P2	Sym Com Pump Saver #777 - KW/HP -P3	1	166.00
	Garling House	Sym Com Pump Saver #777 - KW/HP -P2	Sym Com Pump Saver #777 - KW/HP -P3	1	166.00
C120487	Abandon SYM COM PUMP SAVER #77 C - KW/HP	Sym Com Pump Saver #77 C - KW/HP	Sym Com Pump Saver #77 C - KW/HP	1	166.00
<b>Total 332 - Water Treatment Equipment</b>				<b>12</b>	<b>32,905.74</b>
Job 04-03	Wailua/Kapaa- WK 30	PVC, 2 in.	PVC, 2 in.	1,860	13,745.40
Job 04-03	Wailua/Kapaa- WK 30	PVC, 2 in.	PVC, 2 in.	2,180	16,110.20
Job 02-15	Wailua/Kapaa- WK-28	Cl, 4 in.	Cl, 4 in.	1,670	3,306.60
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	2	3,466.00
Job 02-15	Wailua/Kapaa- WK-28	AC, 8 in.	AC, 8 in.	1,680	31,281.60
Job 02-15	Wailua/Kapaa- WK-28	Cl, 6 in.	Cl, 6 in.	720	2,764.80
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	2	1,214.36
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 6 in.	Gate Valve, 6 in.	3	5,199.00
Job 02-15	Wailua/Kapaa- WK-28	Butterfly Valve, 16 in.	Butterfly Valve, 16 in.	2	13,848.00
Job 02-15	Wailua/Kapaa- WK-28	AC, 4 in.	AC, 4 in.	1,650	4,224.00
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized, 2 in. & smaller	Steel & Galvanized, 2 in. & smaller	1,530	2,616.30
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	1	1,733.00
Job 02-15	Wailua/Kapaa- WK-28	Butterfly Valve, 16 in.	Butterfly Valve, 16 in.	2	13,848.00
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 6 in.	Gate Valve, 6 in.	1	1,733.00
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized, 4 in.	Steel & Galvanized, 4 in.	1,375	2,983.75
Job 02-15	Wailua/Kapaa- WK-28	PVC, 2 in.	PVC, 2 in.	1,275	9,422.25
Job 02-15	Wailua/Kapaa- WK-28	Cl, 6 in.	Cl, 6 in.	280	1,075.20
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	1	607.18



Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 6 in.	Gate Valve, 6 in.	1	1,733.00
Job 02-15	Wailua/Kapaa- WK-28	Butterfly Valve, 16 in.	Butterfly Valve, 16 in.	3	20,772.00
Job 02-15	Wailua/Kapaa- WK-28	AC, 4 in.	AC, 4 in.	1,380	3,532.80
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized,2 in. & smaller	Steel & Galvanized,2 in. & smaller	900	1,539.00
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	2	3,466.00
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 6 in.	Gate Valve, 6 in.	1	1,733.00
Job 02-15	Wailua/Kapaa- WK-29	Butterfly Valve, 16 in.	Butterfly Valve, 16 in.	2	13,848.00
Job 02-15	Wailua/Kapaa- WK-28	AC, 4 in.	AC, 4 in.	305	780.80
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized,2 in. & smaller	Steel & Galvanized,2 in. & smaller	105	179.55
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	1	607.18
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized,2 in. & smaller	Steel & Galvanized,2 in. & smaller	740	1,265.40
Job 02-15	Wailua/Kapaa- WK-28	AC, 4 in.	AC, 4 in.	380	972.80
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized,2 in. & smaller	Steel & Galvanized,2 in. & smaller	520	889.20
Job 02-15	Wailua/Kapaa- WK-28	PVC, 1.5 in.	PVC, 1.5 in.	110	1,144.00
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	1	1,733.00
Job 02-15	Wailua/Kapaa- WK-28	AC, 4 in.	AC, 4 in.	1,305	3,340.80
Job 02-15	Wailua/Kapaa- WK-28	Steel & Galvanized,2 in. & smaller	Steel & Galvanized,2 in. & smaller	1,165	1,992.15
Job 02-15	Wailua/Kapaa- WK-28	CI, 6 in.	CI, 6 in.	1,880	7,219.20
Job 02-15	Wailua/Kapaa- WK-28	Concrete Cylinder, 12 in.	Concrete Cylinder, 12 in.	1,885	23,015.85
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 4 in.	Gate Valve, 4 in.	5	8,665.00
Job 02-15	Wailua/Kapaa- WK-28	Gate Valve, 6 in.	Gate Valve, 6 in.	12	20,796.00
Job 02-15	Wailua/Kapaa- WK-28	Concrete Cylinder, 12 in.	Concrete Cylinder, 12 in.	4	48.84
<b>Total 343 - Transmission &amp; Distribution Mains</b>				<b>24,941</b>	<b>248,452.21</b>

Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	8	3,178.32
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	10	6,551.10
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	10	3,972.90
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	14	9,171.54
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	12	4,767.48
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	12	7,861.32
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	8	3,178.32
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	9	5,895.99
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	8	3,178.32
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	1	655.11
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	1	397.29
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	1	655.11
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	3	1,191.87
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	4	2,620.44
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	11	4,370.19
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	8	5,240.88
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	18	7,151.22
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	6	3,930.66
Job 02-15	Wailua/Kapaa- WK-28	Various, 1"	Various, 1"	24	9,534.96
Job 02-15	Wailua/Kapaa- WK-28	Various, 1" Dbl	Various, 1" Dbl	4	2,620.44
<b>Total 345 - Services</b>				<b>172</b>	<b>86,123.46</b>
C131067	Replace Hydrant X-076	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131108	Replace Hydrant G-030	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131110	Replace Hydrant C-004	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131255	Replace Hydrant A-032	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16

C131243	Replace Hydrant C-005	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131282	Replace Hydrant M-018-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131374	Replace Hydrant K-134-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131434	Replace Hydrant K-229	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131496	Replace Hydrant M-028-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131645	Replace Hydrant E-024-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131746	Replace Hydrant D-127	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131757	Replace Hydrant O-117-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131758	Replace Hydrant N-097-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131742	Replace Hydrant W-032-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131848	Replace Hydrant K-105-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131849	Replace Hydrant J-051-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131853	Replace Hydrant Q-028-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131852	Replace Hydrant Q-029-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131927	Replace Hydrant R-070-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C131949	Replace Hydrant R-090-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C132189	Replace Hydrant L-040-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C132174	Replace Hydrant D-069	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140102	Replace Hydrant N-058-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C104103	Replace Hydrant Q-026-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C104181	Replace Hydrant D-117-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140182	Replace Hydrant K1-051	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140228	Replace Hydrant O-117-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140275	Replace Hydrant D-022-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140274	Replace Hydrant D-166-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16

	Replace Hydrant H-048-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140276	Replace Hydrant D-063-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140339	Replace Hydrant D-006-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140284	Replace Hydrant K-149-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C130109	Replace Hydrant N-038-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140571	Replace Hydrant K-101-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140760	Replace Hydrant R-022-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140760	Replace Hydrant R-021-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140760	Replace Hydrant R-024-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140816	Replace Hydrant w/ Clow	Branch Valve, 6 in.	Branch Valve, 6 in.	1	1,253.18
C140760	Replace Hydrant R-020-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140760	Replace Hydrant R-019-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C140760	Replace Hydrant R-023-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
	Replace Hydrant M-059-6FH	(1) 2.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
	Replace Hydrant M-065-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
	Replace Hydrant M-052-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
C141004	Replace Hydrant K-012-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
	Replace Hydrant D-107-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
	Replace Hydrant M-068-6FH	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,947.16
Job 04-03	Wailua/Kapaa-Waipoli	Standpipe, 2.5 in.	Standpipe, 2.5 in.	2	828.00
Job 04-03	Wailua/Kapaa-Olohena	Standpipe, 2.5 in.	Standpipe, 2.5 in.	1	414.00
Job 04-03	Wailua/Kapaa-Olohena	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	Branch Valve, 6 in.	Branch Valve, 6 in.	2	2,506.36
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16

Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa - WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa - WK-29	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa - WK-30	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
Job 02-15	Wailua/Kapaa- WK-28	(1) 2.5" x (1) 4.5"	(1) 2.5" x (1) 4.5"	1	1,946.16
<b>Total 348 - Hydrants</b>				<b>78</b>	<b>145,126.06</b>
<b>Total Utility Plant Abandonments, FY 2014</b>					<b>517,612.67</b>

**Kauai County - Department of Water**  
**June 30, 2014**  
**General Plant Additions**

<b>Date</b>	<b>Vendor</b>	<b>Quantity</b>	<b>Description/Type</b>	<b>Account</b>	<b>Cost</b>
7/31/2013	Consolidated Sterilizer Systems	1	Autoclave - Model SSR-3A-ADVPRO	391.4	37,860.35
			<b>Microlab Furniture &amp; Equipment</b>		<b>37,860.35</b>
8/9/2013	Dell Computer Corporation	5	PowerEdge R620	391.5	28,200.96
8/30/2013	Dell Computer Corporation	1	PowerEdge R620	391.5	6,406.24
8/30/2013	Dell Computer Corporation	1	Precision T3600	391.5	1,331.00
3/27/2014	HP Direct	1	Color LJ Ent M750xh Printer	391.5	5,094.18
3/31/2014	Dell Computer Corporation	1	PowerVault TL2000 Tape Library & Media Kit	391.5	12,847.74
			<b>Computer Hardware</b>		<b>53,880.12</b>
8/31/2013	Dell Computer Corporation	1	Dell Equallogic Storage Array PS4100E	391.6	14,369.89
12/31/2013	Dell Computer Corporation	1	Dell DL4000	391.6	20,385.40
			<b>Computer Capital Leases</b>		<b>34,755.29</b>
1/31/2014	Kuhio Auto Group	1	2014 Ford Explorer VIN 1FM5K8B8XEGB11389	392	36,365.00
1/31/2014	Kuhio Auto Group	1	2014 Ford F-150 VIN 1FTEX1EMXEFA18979	392	41,818.00
1/31/2014	Kuhio Auto Group	1	2014 Ford F-150 VIN 1FTEX1EM8EFA18978	392	41,818.00
5/31/2014	Orchid Isle Auto Center	1	2014 Ford F-450 1FDOX4GT7DEB87969	392	99,160.98
			<b>Transportation Equipment</b>		<b>219,161.98</b>
10/31/2013	IT Kauai	1	Baseyard Security System	394	14,859.38
			<b>Tools, Shop &amp; Garage Equipment</b>		<b>14,859.38</b>
9/30/2013	Allied Machinery Corp	1	Trailer Mounted 125 KVA Emergency Generator	396	72,395.37
			<b>Power Operated Equipment</b>		<b>72,395.37</b>
			<b>Total General Plant Additions, FY '14</b>		<b>432,912.49</b>

Kauai County - Department of Water  
June30, 2014  
General Plant  
Retirements

Date	Vendor	Quantity	Description	Amount
7/31/2013	Sears	1	Refrigerator,18CF, 31in W w/ Icemaker	863.08

Kauai County - Department of Water  
June 30, 2014  
Intangible Asset Additions

Date	Vendor	Description/Type	Account	Cost
10/31/13	Glenmount Global Solutions	SCADA Server System	491.5	164,234.53
5/29/14	Badger Meter	Data Management Software	491.5	13,332.00
		<b>Intangible Assets</b>		<b>177,566.53</b>